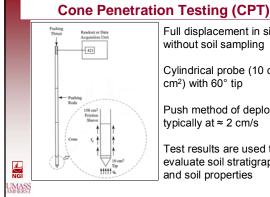
## **Cone Penetration Testing (CPT)**

## **Tom's First Two Lectures:**

1. What does CPT/CPTU measure? - Historical overview, CPT/CPTU in today's practice, CPT equipment and procedures, deployment systems, data acquisition.

2 CPT data processing: corrections, accuracy, data quality, standards and specifications.





Full displacement in situ test without soil sampling

Cylindrical probe (10 or 15 cm<sup>2</sup>) with 60° tip

Push method of deployment typically at ≈ 2 cm/s

Test results are used to evaluate soil stratigraphy and soil properties

## **Cone Penetration Testing (CPT)**

## Standards of Reference:

American Society for Testing and Materials (ASTM):

- D3441 "Mechanical Cone Penetration Tests of Soil"
- D5778 "Performing Electric Friction Cone and Piezocone Penetration Testing of Soils"
- D6067 "Using the Electric Cone Penetrometer for Environmental Site Characterization"



International Standard (ISSMGE):

"International Reference Test Procedure for the Cone Penetration Test (CPT) and the Cone Penetration Test with pore pressure (CPTU)"

